

MATH 100
Fall, 2008

Name _____

Homework #13

Due Monday, November 10

No late papers accepted! No excuses!

1. Frank Capek and friends are dining at the Bay Steamer Restaurant this evening, where a complete dinner consists of three items: (1) soup (clam chowder or minestrone) or salad (fresh spinach or shrimp), (2) sourdough rolls or bran muffin, and (3) entrée (lasagna, lobster, or roast turkey). Frank selects his meal subject to the following restrictions. He cannot stomach more than one kind of seafood at a sitting. Also, whenever he has minestrone, he cannot resist having lasagna as well. And he cannot face the teasing he would receive from his companions if he were to order both spinach and bran. Use a tree diagram to determine the number of different choices Frank has.

